# TF Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | TF/Transferrin, Monoclonal Antibody |
| **Full Product Name** | Anti-Human TF/Transferrin Antibody (SAA1399), APC |
| **Product Gene Name** | anti-TF antibody |
| **Product Synonym Names** | Serotransferrin; Beta-1 metal-binding globulin; Siderophilin; Transferrin; TF |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a, kappa |
| **Clone Number** | SAA1399 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid; 0.01M PBS, pH 7.4, 0.2% BSA, 0.05% Proclin 300. |
| **Concentration** | 0.5mg/ml (lot specific) |
| **Preparation and Storage** | Store at 4 degree C for 12 months. Protect from light. Do not freeze. |
| **Molecular Weight** | 77,064 Da |
| **Chromosome Location** | Chromosome: 3; NC_000003.11 (133464977..133497850). Location: 3q22.1 |
| **OMIM** | 190000 |
| **3D Structure** | ModBase 3D Structure for P02787 |
| **Conjugation** | APC |
| **Product Categories/Family for anti-TF antibody** | Super-Affinity Antibodies; Flow Cytometry Antibodies |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-TF antibody** | ELISA (EIA), Flow Cytometry (FC/FACS/FCM) |
| **Related Product Information for anti-TF antibody** | MBS1582600 is an antibody targeting TF. Also known as Anti-Human TF/Transferrin Antibody (SAA1399), APC. Reactive in Human. Host: Mouse. |
| **Other Notes** | Small volumes of anti-TF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TF. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 339453 |
| **NCBI GeneID** | 7018 |
| **NCBI Accession #** | AAA61140.1 |
| **UniProt Primary Accession #** | P02787 |

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| **UniProt Secondary Accession #** | O43890; Q1HBA5; Q9NQB8; Q9UHV0 |
| **UniProt Related Accession #** | P02787 |
| **NCBI Official Full Name** | transferrin |
| **NCBI Official Synonym Full Names** | transferrin |
| **NCBI Official Symbol** | TF |
| **NCBI Official Synonym Symbols** | TFQTL1; PRO1557; PRO2086 |
| **UniProt Protein Name** | Serotransferrin |
| **UniProt Synonym Protein Names** | Beta-1 metal-binding globulin; Siderophilin |
| **Protein Family** | Transferrin receptor protein |
| **UniProt Gene Name** | TF |
| **UniProt Synonym Gene Names** | Transferrin |
| **UniProt Entry Name** | TRFE_HUMAN |
| **NCBI Protein Information** | serotransferrin; siderophilin; beta-1 metal-binding globulin |
| **NCBI Summary for TF** | This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It is thought to have been created as a result of an ancient gene duplication event that led to generation of homologous C and N-terminal domains each of which binds one ion of ferric iron. The function of this protein is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte/pollen-binding protein (GPBP) involved in the removal of certain organic matter and allergens from serum. [provided by RefSeq, Sep 2009] |
| **UniProt Comments for TF** | TF: Transferrins are iron binding transport proteins which can bind two Fe(3+) ions in association with the binding of an anion, usually bicarbonate. It is responsible for the transport of iron from sites of absorption and heme degradation to those of storage and utilization. Serum transferrin may also have a further role in stimulating cell proliferation. Defects in TF are the cause of atransferrinemia (ATRAF). Atransferrinemia is rare autosomal recessive disorder characterized by iron overload and hypochromic anemia. Belongs to the transferrin family.<br><br>Protein type: Secreted; Secreted, signal peptide<br><br>Chromosomal Location of Human Ortholog: 3q22.1<br><br>Cellular Component: extracellular space; cell surface; early endosome; cytoplasmic membrane-bound vesicle; extracellular region; coated pit; recycling endosome; endocytic vesicle; perinuclear region of cytoplasm; apical plasma membrane; late endosome; basal plasma membrane; endosome membrane; vesicle<br><br>Molecular Function: protein binding; ferric iron binding; ubiquitin protein ligase binding<br><br>Biological Process: platelet activation; retinal homeostasis; platelet degranulation; cellular iron ion homeostasis; transferrin transport; blood coagulation; transmembrane transport<br><br>Disease: Atransferrinemia |
| **Research Articles on TF** | **1.** The structures of hTF observed here represent key conformers captured in the dynamic nature of the transferrin family proteins and provide a structural basis for understanding the mechanism of metal uptake and release in transferrin families. |
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